

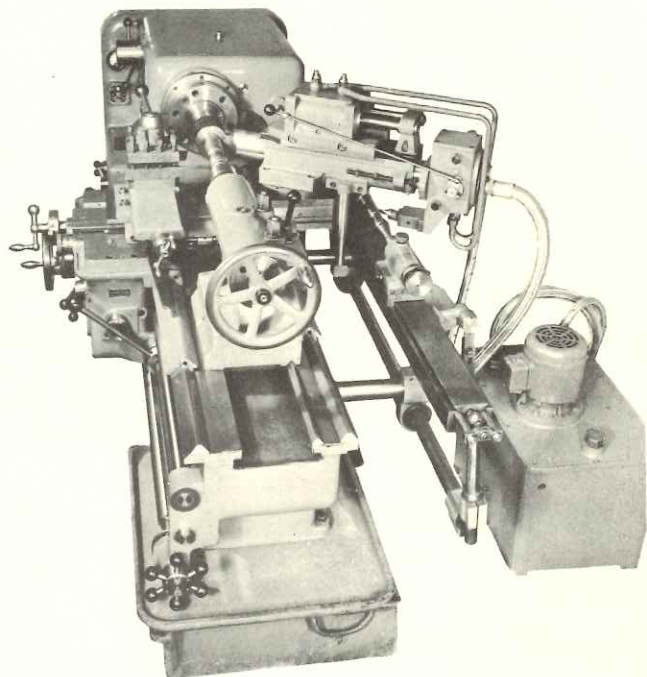
82/11.1

Machine Tool Show, May 1st 1958
Philadelphia, Pa.

T.S.H.

ACC-U-MAT

ALL HYDRAULIC LATHE COPYING ATTACHMENT

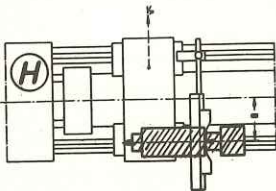
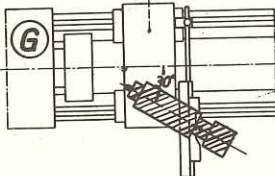
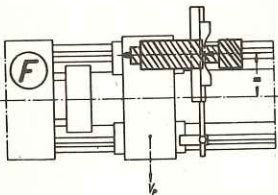
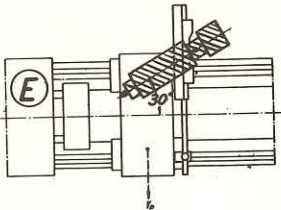
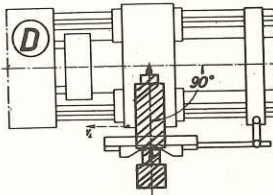
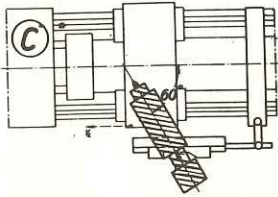
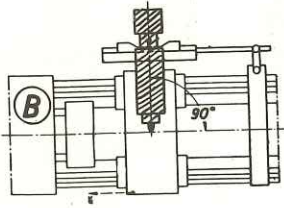
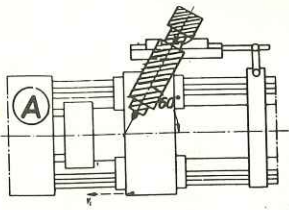


The ACC-U-MAT Lathe Duplicating Attachment is fully hydraulic and can be fitted to the cross-slide of Engine or Turret lathes, at any position from A to K (see mounting diagrams) for internal or external precision turning and facing of spindles, axles, shafts, valve stems, piston rods, lens lapping bells etc., regardless of number of steps, taper and radii. It eliminates the excessive time losses involved in stopping of lathes to mike diameters when pieces are turned individually. It also produces exceptionally fine surface finishes. No expensive form tools are needed. When ACC-U-MAT is set up at 90° angle to the axis of rotation, ascending and descending angles of 60° can be copied. ACC-U-MAT is to be swiveled to a 60° angle to the axis of rotation for the purpose of turning straight shoulders, which brings descending angles up to 30° within copying range. Thus, almost all shapes occurring in turning practice can be copied. The units are supplied with a swivel base to facilitate the changing of the setup.

ACC-U-MAT has the important feature of possessing a control system that is absolutely trouble-free and reliable, wear resistant and unaffected by a slight degree of oil impurity, and which works at an unusually low tracer pressure of 3 1/2 ozs., which eliminates the need of hardening templates or masters. The following accuracy of the stylus is .0002".

TO MEET THE GENERAL DEMAND FOR LARGER WORK DIAMETER DIFFERENTIALS, SPECIAL UNITS WITH INCREASED RAM STROKES HAVE BEEN DEVELOPED, WITH WHICH WORK DIAMETER DIFFERENTIALS OF UP TO 24" CAN BE COPIED. THIS NEW FEATURE IS UNIQUE, AND REPRESENTS, WITHOUT EXAGGERATION, A WHOLLY NEW CONCEPT IN THE FIELD OF LATHE DUPLICATING.

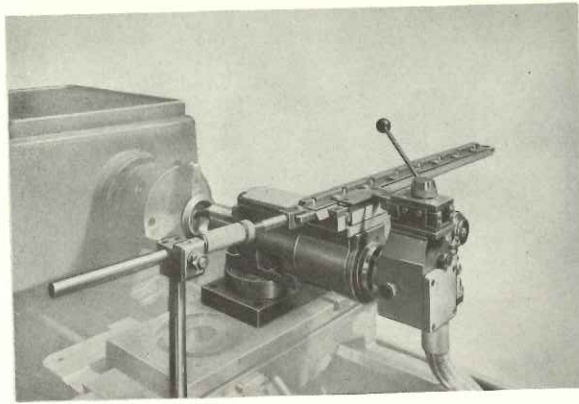
82/11.1



A - D: Models 521-21-1021
Longitudinal Turning.

E - H: Models 521-21-1021
Facing.

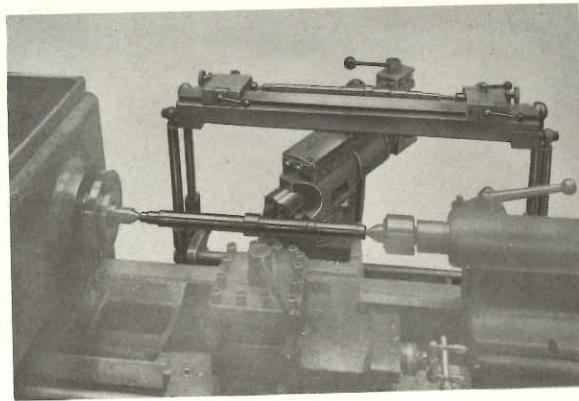
J - K: Models 522-22-1022
Longitudinal Turning.



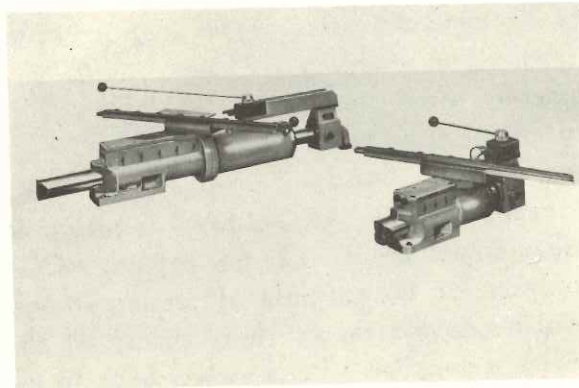
Model 521



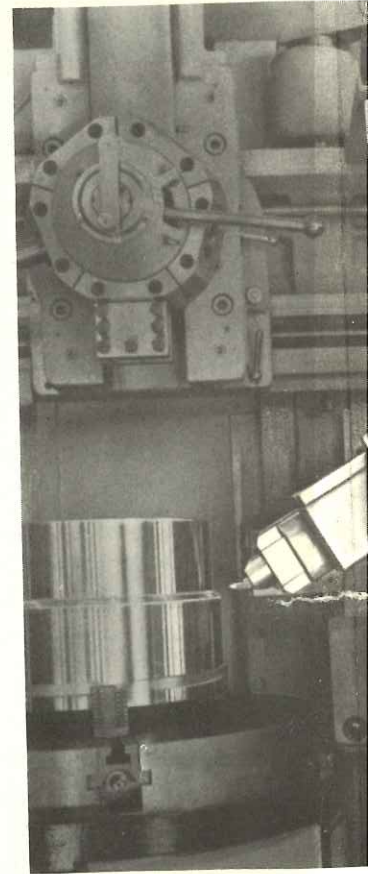
Model 521



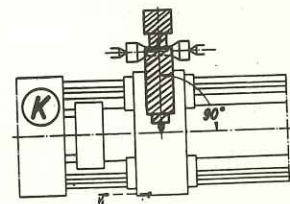
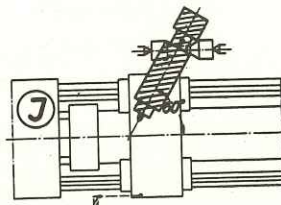
Model 522



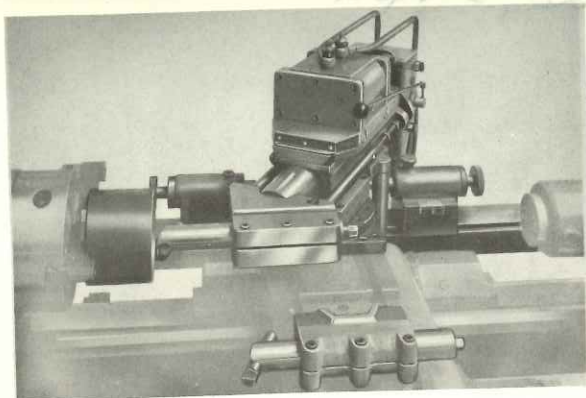
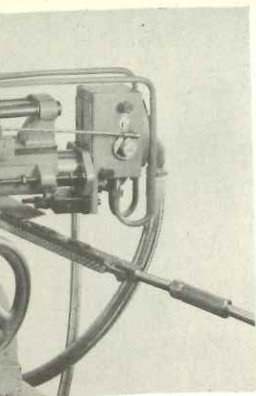
Model 521
with 3-1/8" and 8" stroke.



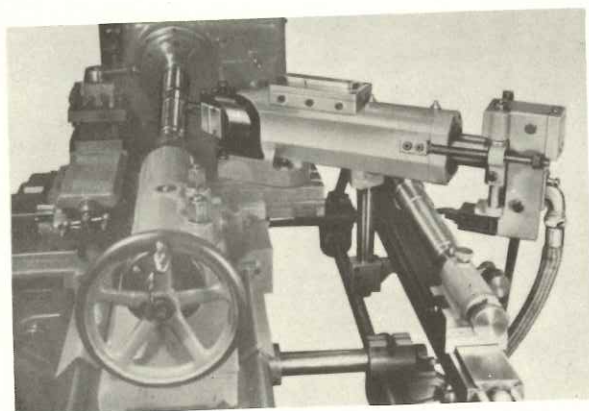
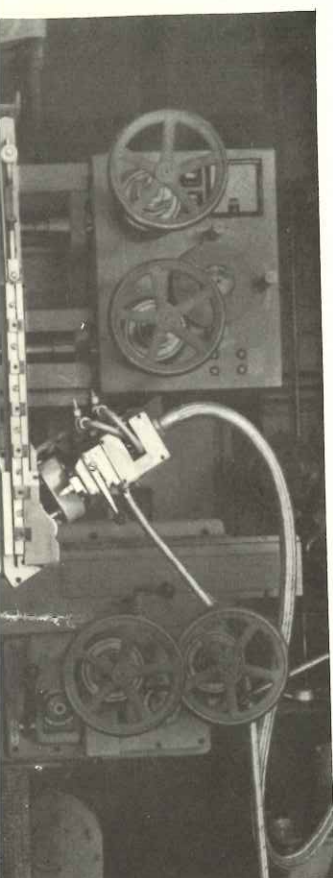
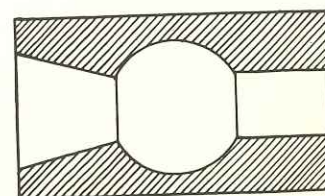
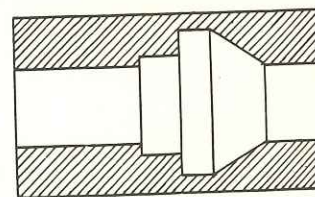
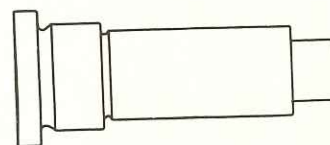
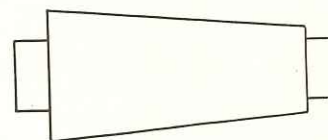
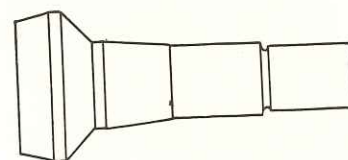
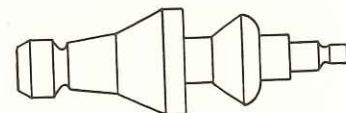
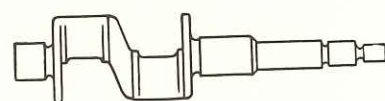
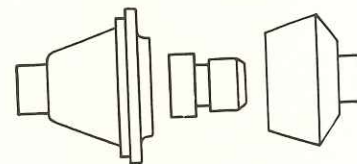
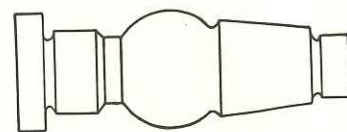
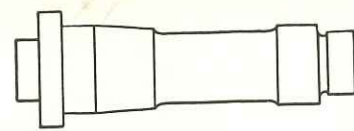
Model 521



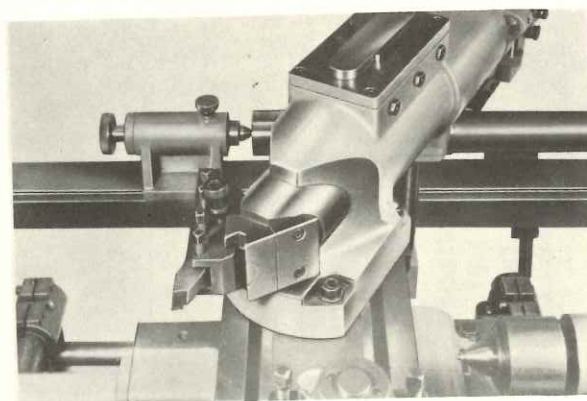
21



Model 22



Model 1022 Heavy Duty



Model 1022 Heavy Duty showing quick change Tool Holder.

21

	FLAT TEMPLATE HOLDER UNITS			ROUND MASTER HOLDER UNITS		
MODEL NO.....	521	21	1021	522	22	1022
FOR LATHES WITH SWING OF POWER RANGE	10" TO 18" UP TO 5 HP	16" TO 30" 5 HP & UP	20" & UP 15 HP & UP	10" to 18" UP TO 5 HP	16" to 30" 5 HP & UP	20" & UP 15 HP & UP
<u>COPYING LENGTHS</u> STANDARD	20"	20"	20"	20, 30 OR 40"	30, 40, 60, 80 OR 100"	40, 60, 80 OR 100"
ON REQUEST	30 OR 40"	30 OR 40"	30, 40 OR 60"			
<u>STANDARD UNITS</u> STROKE OF RAM	3.1/8"	4.3/4"	4.3/4"	3.1/8"	4.3/4"	4.3/4"
MAXIMUM WORK DIAMETER DIFFERENTIAL: AT 60° SETTING	5.1/2"	8.00"	8.00"	5.1/2"	8.00"	8.00"
AT 90° SETTING	6.1/4"	9.1/2"	9.1/2"	6.1/4"	9.1/2"	9.1/2"
<u>SPECIAL UNITS</u> STROKE OF RAM UP TO	8.00"	6.00"	12.00"			
MAXIMUM WORK DIAMETER DIFFERENTIAL: AT 60° SETTING	13.7/16"	10.00"	20.00"			
AT 90° SETTING	16.00"	12.00"	24.00"			
*INTERMEDIATE RAM STROKES ARE ALSO AVAILABLE.						
TRANSVERSE PRESSURE ON TOOL	1320 LBS. 3.1/2-OZS.	2640 LBS. 3.1/2 OZS.	3300 LBS. 3.1/2 OZS.	1320 LBS. 3.1/2 OZS.	2640 LBS. 3.1/2 OZS.	3300 LBS. 3.1/2 OZS.
TRACER PRESSURE OF STYLUS	.0002"	.0002"	.0002"	.0002"	.0002"	.0002"
FOLLOWER ACCURACY OF STYLUS	145 LBS.	145 LBS.	145 LBS.	145 LBS.	145 LBS.	145 LBS.
OIL WORKING PRESSURE						
<u>APPROXIMATE WEIGHTS:</u> TRACER & REGULATOR, EXCLUDING TEMPLATE OR MASTER HOLDER FIXTURES.....	90 LBS. 160 LBS.	213 LBS. 180 LBS.	350 LBS. 180 LBS.	90 LBS. 160 LBS.	213 LBS. 180 LBS.	350 LBS. 180 LBS.
HYDRAULIC POWER UNIT						

STANDARD ACC-U-MAT EQUIPMENT INCLUDES:

Models 521-21 and 1021 (with flat template holders): Tracer and regulator, baseplate, template holder and guide, draw bar, draw bar post and bracket, hydraulic power unit (tank, pump and electric motor 3/220/60) pressure and return hose.

Models 522-22 and 1022 (with round Master): Tracer and regulator, base plate, round master holder hydraulic power unit (tank, pump and electric motor 3/220/60) pressure and return hose.

ACC - U - MAT MACHINE COMPANY

40 EXCHANGE PLACE

NEW YORK 5. N. Y.

DISTRIBUTED BY